HU-25A Guardian #524 07/19/16 - 07/20/16

Aircraft:
HU-25A Guardian #524 (See full schedule)
Flight Number:
OIB 2016 on HU25A #8
Payload Configuration:
ATM and DMS
Nav Data Collected:
No
Total Flight Time:
3.6 hours
Submitted by:
Richard Yasky on 07/20/16
Flight Segments:

From:	PABR	**To:**	PABR
Start:	07/19/16 21:03 Z	**Finish:**	07/20/16 00:40 Z
Flight Time:	3.6 hours		
Log Number:	16F003	**PI:**	Nathan Kurtz
Funding Source:	Thomas Wagner - NASA - SMD - ESD Cryosphere & International Polar Year		
Purpose of Flight:	Science		
Comments:	Research flight 3-450 NM northwest of Barrow to under fly CryoSat. Weather on most of the south to north line was clear. After termination of the line at 76.8N 174.3W, researchers elected to continue southeast at low altitude to take advantage of clear weather to get additional sea ice data. Fuel dictated a climb for return to Barrow after approximately 100 NM on that track.		

Flight Hour Summary:

	16F003
Flight Hours Approved in SOFRS	121.25
Total Used	126.9
Total Remaining	-5.65

16F003 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining
06/29/16	OIB 2016 on HU25A ICF	Science	2	2	119.25
07/11/16	OIB 2016 on HU25A #1	Ferry	2.6	4.6	116.65
07/11/16	OIB 2016 on HU25A #2	Ferry	2.5	7.1	114.15
07/11/16 - 07/12/16	OIB 2016 on HU25A #3	Ferry	2.2	9.3	111.95
07/12/16 - 07/13/16	OIB 2016 on HU25A #4	Ferry	2.6	11.9	109.35
07/13/16	OIB 2016 on HU25A #5	Science	3.4	15.3	105.95
07/14/16	OIB 2016 on HU25A #6	Science	3.5	18.8	102.45
07/15/16	OIB 2016 on HU25A #7	Science	3.7	22.5	98.75
07/19/16 - 07/20/16	OIB 2016 on HU25A #8	Science	3.6	26.1	95.15
07/20/16	OIB 2016 on HU25A #9	Science	3.4	29.5	91.75
07/21/16	OIB 2016 on HU25A #10	Science	3.6	33.1	88.15

07/22/16	OIB 2016 on HU25A #11	Ferry	3.9	37	84.25
07/22/16	OIB 2016 on HU25A #12	Ferry	3.2	40.2	81.05
07/22/16	OIB 2016 on HU25A #13	Ferry	2.1	42.3	78.95
08/23/16	OIB 2016 on HU-25 #14	Science	2.3	44.6	76.65
08/25/16	OIB 2016 on HU-25 #15	Ferry	3.2	47.8	73.45
08/25/16	OIB 2016 on HU-25 #16	Ferry	2.2	50	71.25
08/27/16	OIB 2016 on HU-25 #17	Science	3.7	53.7	67.55
08/29/16	OIB 2016 on HU-25 #18	Science	3.8	57.5	63.75
08/29/16	OIB 2016 on HU-25 #19	Science	3.5	61	60.25
09/01/16	OIB 2016 on HU-25 #20	Science	3.4	64.4	56.85
09/02/16	OIB 2016 on HU-25 #21	Science	3.8	68.2	53.05
09/02/16	OIB 2016 on HU-25 #22	Science	3.8	72	49.25
09/05/16	OIB 2016 on HU-25 #23	Science	0.6	72.6	48.65
09/06/16	OIB 2016 on HU-25 #24	Science	3.5	76.1	45.15
09/09/16	OIB 2016 on HU-25 #25	Science	3.5	79.6	41.65
09/09/16	OIB 2016 on HU-25 #26	Science	3.5	83.1	38.15
09/10/16	OIB 2016 on HU-25 #27	Science	3	86.1	35.15
09/11/16	OIB 2016 on HU-25 #28	Science	3.9	90	31.25
09/11/16	OIB 2016 on HU-25 #29	Science	3.7	93.7	27.55
09/12/16	OIB 2016 on HU-25 #30	Science	3.3	97	24.25
09/12/16	OIB 2016 on HU-25 #31	Science	2.7	99.7	21.55
09/13/16	OIB 2016 on HU-25 #32	Science	4	103.7	17.55
09/13/16	OIB 2016 on HU-25 #33	Science	2.9	106.6	14.65
09/15/16	OIB 2016 on HU-25 #34	Science	3.7	110.3	10.95
09/16/16	OIB 2016 on HU-25 #35	Ferry	2.4	112.7	8.55
09/16/16	OIB 2016 on HU-25 #35	Ferry	1.7	114.4	6.85
09/16/16	OIB 2016 on HU-25 #35	Ferry	1.7	116.1	5.15
09/17/16	OIB 2016 on HU-25 #38	Ferry	2.8	118.9	2.35
09/17/16	OIB 2016 on HU-25 #38	Ferry	2.9	121.8	-0.55
09/19/16	OIB 2016 on HU-25 #40	Ferry	2.5	124.3	-3.05

09/19/16	OIB 2016 on HU-25 #40	Ferry	2.6	126.9	-5.65

Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.

Related Science Report:

OIB - HU-25C Guardian 07/19/16 Science Report

Mission:
OIB
Mission Summary:

7/19/16 OIB SF 04: Cleanup 1
IceBridge flew a line to expand coverage in the northwest section of the Falcon?s range limit, take advantage of a forecast hole in the clouds, and coincide with a CryoSat-2 orbit. The CryoSat-2 satellite passed over at 2317Z, about 20 minutes after we completed the line. Upon descent to the line clouds were present at about 200 feet altitude, but they were thin and patchy and the ATM was able to collect data. The clouds cleared out entirely not long after allowing for good data to be collected along the entire line. Conditions along the line were variable, with areas of open water, compact ice floes with melt ponds, and some heavily ridged ice seen.

Upon completion of the CryoSat-2 line we turned back towards Barrow and continued taking low altitude data in cloud-free conditions for another 100 nm before heading back at high altitude. This was a highly successful flight with data collected throughout the entire flight line and extra data collected on the return trip back to Barrow.

Data Volumes
ATM: 6.0 Gb
FLIR: 4.5 Gb
DMS: 23.2 Gb, 3601 frames
Data on at 21:53, data off at 23:23

File:
7_15_map.pdf
Submitted by:
Nathan T. Kurtz on 07/19/16
